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FR-02197 - CITCO High-Efficiency Electric P/M/C/L Sub-Application

General Information

Funding Request	855400LLC
Supplement Type	CITCO High-Efficiency Electric Pumps, Motors, Compressors, and/or Lighting Sub-Application
Supplement Status	Submitted

Project Overview

Supplemental Response 01 Question:
Please describe in detail the project scope and proposed changes (e.g., equipment/technology, processes, etc. to be replaced and/or installed).

Response:
Project will install high efficiency air compressors operated with variable speed drives and all LED lighting to minimize annual power consumption consumed in the facility.

Project Scenario **Redacted**

Supplemental Response 02 Question:
Please describe in detail the objective of the proposed project.

Response:
Project has two primary objectives: (1) to operate the compressed air system as efficiently as possible and (2) to install all LED lighting to reduce power consumption. The compressed air system will have two air compressors with dedicated variable speed drives to accommodate **Redacted**.
Redacted All facility lighting including operating area, high bay and office lighting will be LED with lower fixture wattage than traditional industry lighting.

Expected Project Lifespan (years) **Redacted**

Project Readiness

Supplemental Response 03 Question:
Please provide a detailed project plan, including the specific work tasks to be completed, the implementation timeline with phases and key milestones, the technological scope of the project, and any potential inflection points where project completion may be reconsidered.

Response:

Redacted

**Supplemental
Response 04****Question:**

Please describe the team and team members that will be working on this project, the unique qualifications that will lead to a successful project, and the administrative and technical capacity to do so.

Response:

The applicant will utilize professional, reputable and experienced third-party contractors to complete the project. These contractors will have oversight from the applicant's internal engineering, operation, procurement and finance teams formed with multiple individuals who have completed themselves and/or provided oversight to multiple previous installations.

**Supplemental
Response 05****Question:**

Does the proposed project require any known notifications, compliance with land use plans, zoning codes, permits (i.e., water and/or air permits), utility authorizations, or other approvals?

Response:

Yes

**Supplemental
Response 06****Question:**

If yes, please specify the notifications, permits, or authorizations needed, including any governmental or utility requirements. Additionally, outline the steps taken or planned to ensure compliance, including where the project currently stands in the permitting or authorization process.

Response:

Redacted

**Supplemental
Response 07****Question:**

Please outline risks (technical, financial, supply chain, etc.) that may delay or prevent the implementation of the proposed project should it be awarded a tax credit reservation, as well as proactive steps your organization has and/or will take to reduce such risks.

Response:

Technical risk is well understood and mitigated with internal and external expertise.

Redacted

Supply chain risk is low due to multiple equipment suppliers and competitive procurement processes. Labour risk is minimized with the availability of local and non-local contractors to complete the required installations.

**Supplemental
Response 30****Question:**

Upgrades or installations of utility service feed equipment in direct support of the proposed equipment electrification project are eligible for CITCO. Does the applicant's request for a tax credit reservation under CITCO include electric utility service feed equipment? If yes, please describe what improvements need to be made.

Response:

Redacted

Project Subtypes

Installing High-Efficiency Electric Compressors; Installing High-Efficiency LED Fixtures and Lamps

High-Efficiency Electric Motors**Supplemental
Response 31**

N/A

**Supplemental
Response 32**

N/A

**Supplemental
Response 33**

N/A

High-Efficiency Electric Compressors**Supplemental
Response 37****Question:**

Compressors: For new-build or expansion projects, please describe the utilization of the proposed compressor(s), including its intended applications, daily and seasonal operating schedules, run time, and how its operation would differ from the BAU equipment that would otherwise be installed.

Response:

Redacted

Supplemental
Response 38

Question:

Compressors: Are there specific energy efficiency measures in place or planned that complement the proposed project, such as control systems or variable load management systems (e.g., VFD)?

Response:

Redacted**High-Efficiency Electric Pumps**Supplemental
Response 42

N/A

Supplemental
Response 43

N/A

High-Efficiency LED Fixtures and LampsSupplemental
Response 45

Question:

Lighting: For new-build or expansion projects, please describe the utilization of the proposed lighting, including its intended applications, daily and seasonal operating schedules, run time, and how its operation would differ from the BAU equipment that would otherwise be installed.

Response:

RedactedSupplemental
Response 46

Question:

Lighting: Please provide details on any other system integration components that will supplement the proposed lighting (e.g., ballast, etc.)

Response:

NA

Supplemental
Response 47

Question:

Lighting: Are there specific energy efficiency measures in place or planned that complement the proposed project, such as control systems or variable load management systems (e.g., VFD)?

Response:

Occupancy control systems

Project BudgetSupplemental
Response 08

Question:

What specifically is your organization seeking cost coverage for regarding this proposed project? Please note that only capital costs related to the proposed project are eligible.

Response:

Redacted

Capital Costs

Percent of Capital
Costs CoveredTotal Tax Credit
Reservation RequestEstimated Annual
Savings (dollars)Payback Period
(years)Supplemental
Response 09**Redacted****Greenhouse Gas Avoidance Benefits**Est GHG Reduction
(MT CO2e/yr)

2,722

Est GHG
Reduction/Dollar (MT

0.067639

CO2e)

**Supplemental
Response 10**

Question:
How were these determinations [of the estimated annual GHG avoidance benefits of the proposed project] made?

Response:
Using GHG avoidance calculator; for largest portion compared traditional fixture power consumptions to proposed LED fixture power consumptions.

Natural Gas Est Pre (therms/yr)	Electricity Est Pre (kWh/yr)	11,911,734
Natural Gas Est Post (therms/yr)	Electricity Est Post (kWh/yr)	6,607,050
Natural Gas Est Diff (therms/yr)	Electricity Est Diff (kWh/yr)	-5,304,684
Other Energy 1 Fuel Type	Other Energy 2 Fuel Type	
Other Energy 1 Est Pre	Other Energy 2 Est Pre	
Other Energy 1 Est Post	Other Energy 2 Est Post	
Other Energy 1 Est Diff	Other Energy 2 Est Diff	

Project Co-Benefits**Supplemental
Response 48**

Question:
How does the proposed project align with existing sustainability/decarbonization initiatives at the facility?

Response:
The specific facility is based in new construction however the applicant maintains a substantive and robust organization wide Sustainability program that is broad based to which the project would align well.

**Supplemental
Response 11**

Question:
Please describe the non-environmental co-benefits that the proposed project(s) will help to achieve (e.g., environmental justice, health benefits, social/community benefits, economic benefits, etc.).

Response:
[Redacted] overall will provide significant employment benefits, taxation benefits, multiplier benefits across the economy, [Redacted]

**Supplemental
Response 12**

Question:
Will these co-benefits extend to the surrounding community, and if so, how?

Response:
Yes, [Redacted] will provide benefits to employees, governments, utilities, service providers, material providers, and then related benefits to individuals, community groups and businesses that receive multiplier benefits across the region.

**Supplemental
Response 13**

Question:
Describe any other additional community benefits that the proposed project is anticipated to provide, submitting supporting documentation as necessary. Community benefits may include: 1) Project Partnerships and public/community engagement, 2) Local hiring and job training/apprenticeship opportunities, 3) Support for local small businesses 4) Education partnerships between project developers and academic institutions, 5) Other benefits to the surrounding communities

Response:
Local, regional and relocated hiring benefit.
Local small businesses for services [Redacted] [Redacted]
[Redacted]
Education partnership with the local college for hands on training programs.
Significant tax base from employer and employees to support many local government and non government programs.

**Supplemental
Response 14**

Question:

Are there other environmental benefits that will result from the implementation of this project (e.g., avoided water consumption, avoided waste products, non-GHG air quality improvements, or pollutant reductions, etc.)?

Response:

Expected reduced maintenance costs, improved quality of lighting,

Redacted

Redacted reduced number of fixture changes which all improve safety risk. For air compression, better quality and consistency of air overall plus reduced noise potential improving safety risk.

**Supplemental
Response 15**

Question:

Are there potential negative impacts, direct, indirect, or cumulative, related to the implementation of this project, whether they be economic, social, health, or environmental? Please clearly identify all such impacts, addressing each economic, social, health, and environmental impacts separately here or within a supplementary mitigation plan.

Response:

A project risk summary and mitigation plan will be subsequently provided.

**Supplemental
Response 16**

Question:

Have mitigation strategies for potential negative impacts been developed? Please outline potential negative impacts and the subsequent mitigation strategy below or in an attached supplementary mitigation plan.

Response:

A project risk summary and mitigation plan will be subsequently provided.

Demonstration of Need**Supplemental
Response 17**

Question:

Does this project face capital constraints that CITCO would help to overcome? Please describe.

Response:

Redacted**Seeking Federal
Grants Or Tax Credits****Supplemental
Response 18**

Question:

If Yes to the question about whether the project will be seeking any state or federal grant funding or tax credit offerings, provide additional details on the grant funding or tax credit offerings (program name, funding amount, application status, and any funds already awarded).

Response:

Redacted

the project has been previously approved for aspects of the Rural Jump Start program.

Redacted**Coverage Exceeding
75%****Supplemental
Response 19**

Question:

Is your organization going to leverage any additional private investment partnerships to assist in financing the proposed project(s)?

Response:

Redacted**Project Innovation****Supplemental
Response 20**

Question:

Is this project or aspects of this project innovative? How so?

Response:

The technologies described herein are well established. The innovative nature of the project is in their

Redacted

reduce the energy consumed in capturing the environmental and non-environmental benefits for the site and for stakeholders.

**Supplemental
Response 21**

Question:

Is this a project that, if implemented, could be transformative for the sector/subsector, and/or for the specific production process being undertaken by the applicant?

Response:

Redacted

 applying these technologies

Redacted

 lower energy consumption capturing environmental and non-environmental benefits

Redacted

 while maintaining the same level of production efficiency.

Redacted

Redacted

Supplemental
Response 22

Question:
Describe how the proposed project has the potential to significantly advance reductions in GHG emissions.

Response:

Redacted

Supplemental
Response 23

Question:
Does the technology to be installed as part of the proposed project(s) meet a technology readiness level (TRL) of six or greater? Please use the TRL guidance document in the appendix for guidance when making this determination.

Response:
Yes

Technology
Readiness Level (TRL)

TRL 9 - Actual system proven in operational environment

Supplemental
Response 24

Question:
If the proposed technology meets but does not exceed the technology readiness level of six, please describe the technology's performance in a relevant environment and the potential risks associated with implementing a full-scale prototype demonstration in an operational environment.

Response:

Supplemental
Response 25

Question:
If the proposed technology does not exceed the technology readiness level of seven, please describe its prototype performance in an operational environment, replicability & adoption potential within Colorado's industrial sector, as well as the technological risks associated with funding this project.

Response:

Supplemental
Response 26

Question:
If available, provide scientific literature detailing the potential GHG avoidance impacts of the proposed technology, or subsequent literature on technology results to date.

Response:

Submission Affirmation and Signature

Supplement Attestation Text	By entering your full name and date below, you are attesting that you understand and certify that the applicant organization is both registered and in Good Standing with the Colorado Secretary of State's Office. You understand that any false statement(s) made in this application may result in ineligibility or the termination of a tax credit reservation awarded based on this application.		
Supplement Attestation Signed	☒		
Supplement Signature	Stewart G. Austin, Authorized Agent - 2025-12-30		
Supplement Submitted Date/Time	12/30/2025, 9:49 AM		

System Information

Created By	Stewart Austin, 12/29/2025, 1:23 PM	Last Modified By	Stewart Austin, 12/30/2025, 9:49 AM
Funding Request Supplement Name	FR-02197 - CITCO High-Efficiency Electric P/M/C/L Sub-Application	Record Type	CITCO HEE Supplement

Files

High Effic Motors_Compressor_Lighting_GHG Avoid. Calculator_CITCO Round 4	Confidential Business Information_Example Project Schedule
Last Modified 12/30/2025, 12:45 PM	Last Modified 12/30/2025, 9:45 AM

Created By: **Stewart Austin**

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Energy Audit Note_CITCO application	High Effic Project Budget Workbook_CITCO Cycle 4
Last Modified: 12/29/2025, 4:27 PM	Last Modified: 12/29/2025, 4:15 PM
Created By: Stewart Austin	Created By: Stewart Austin

Equipment

EQ-0000063

Record Type	Compressor
Proposed Operation Equipment Type	Air Compressor
Proposed Type	Rotary

EQ-0000064

Record Type	Compressor
Proposed Operation Equipment Type	Air Compressor 6
Proposed Type	Rotary

EQ-0000065

Record Type	Lighting
Proposed Operation Equipment Type	
Proposed Type	

EQ-0000066

Record Type	Lighting
Proposed Operation Equipment Type	
Proposed Type	

EQ-0000067

Record Type	Lighting
Proposed Operation Equipment Type	
Proposed Type	

Funding Request Supplement History

12/29/2025, 1:23 PM

User: Stewart Austin
Action: Created.